APPENDIX

As explained in paragraphs III.25–27 of this Order, below is the list of actionable violations under Counts II, III, and IV, with selected information from the stipulated spreadsheets. (All violations under Count V, which are listed in Plaintiffs' Exhibit 5, are actionable. None of the alleged violations under Counts I, VI, or VII are actionable.)

			Count II				
Stipulated Table Number* and Row Number	Start Date & Time	Duration (Hr:Min/Hrs)	Authorization/Permit	Emission Point	Contam- inant	Amount Released/ Emissions (lbs)	Emission Limit/ Permit Limit (lbs/hr)
		Chemic	Count II al Plant Permit 4600 (l Carbon Monoxid		23)		
PX 2E Row 137	8/6/2009 2:45 PM	11:24	2.13 of 1069 pounds authorized by Permit 4600	Flare Stack 23	Carbon Monoxide	1,069.00	840.59
PX 2E Row 171	7/30/2010 10:09 PM	3:12	1.7 of total of 78.1 lbs are authorized under permit 4600	Flare Stack 23	Carbon Monoxide	76.40	840.59
		Chemic	Count II eal Plant Permit 4600 (I NO _x	Flare Stack	23)		
PX 2E Row 138	8/6/2009 2:45 PM	11:24	0.33 of 170 pounds authorized by Permit 4600	Flare Stack 23	NOX	170.00	116.81
PX 2E Row 172	7/30/2010 10:09 PM	3:12	0.2 of total of 10.8 lbs are authorized under permit 4600	Flare Stack 23	NOX	10.60	116.81
		Chemic	Count II cal Plant Permit 4600 (Total VOC	Flare Stack	23)		
PX 2E Row 140	8/6/2009 2:45 PM	11:24	404 of 4,217 pounds authorized by Permit 4600	Flare Stack 23	TOTAL VOC	4,217.00	1,731.12
PX 2E Row 173	7/30/2010 10:09 PM	3:12	2.5 of total of 113.8 lbs are authorized under permit 4600	Flare Stack 23	TOTAL VOC	111.30	1,731.12

		Chemic	Count II cal Plant Permit 20211 (Carbon Monoxic	`	x 12)		
PX 2E Row 179	8/10/2010 10:26 AM	16:12	0 lbs of the total .19 lbs are authorized under permit # 20211	Flare Stack 12	Carbon Monoxide	0.19	67.73
PX 2E Row 188	3/24/2011 8:50 AM	5:35	Portions may be authorized under Permit #20211	Flare Stack 12	Carbon Monoxide	1.67	67.73
			Count II cal Plant Permit 20211 (Irochloric Acid/Hydrog				
PX 2E Row 180	8/10/2010 10:26 AM	16:12	56.82 lbs of the total 9042.8 lbs are authorized under permit # 20211	Flare Stack 12	Hydrogen Chloride	8,985.98	1,132.10
PX 2E Row 193	4/1/2011 3:57 AM	3:07	10.56 lbs of the total 6653.43 lbs are authorized under Permit #20211	Flare Stack 12	Hydro- chloric acid	6,642.87	1,132.10
PX 2E Row 200	3/29/2012 12:04 AM	9:55	11321.00 lbs of the 20500.68 lbs are authorized by Permit 20211	Flare Stack 12	Hydrogen Chloride	9,179.68	1,132.10
PX 2F Row 2353	12/11/2012 10:42 AM	14.3	20211	Flare Stack 12 (FL12)	HCl (Hydrogen Chloride)	462.30	1132.10
,	1	Chemic	Count II cal Plant Permit 20211 (NOX	Flare Stack	x 12)		
PX 2E Row 181	8/10/2010 10:26 AM	16:12	0 lbs of the total .9 lbs are authorized under permit # 20211	Flare Stack 12	NOX	0.90	13.15
PX 2E Row 189	3/24/2011 8:50 AM	5:35	Portions may be authorized under Permit #20211	Flare Stack 12	NOX	0.33	13.15
PX 2E Row 194	4/1/2011 3:57 AM	3:07	0 lbs of the total 10.06 lbs are authorized under Permit #20211	Flare Stack 12	NOX	10.06	13.15

		Chemi	Count II cal Plant Permit 20211 (Total VOC	(Flare Staci	x 12)		
PX 2E Row 182	8/10/2010 10:26 AM	16:12	55.76 lbs of the total 330.7 lbs are authorized under permit # 20211	Flare Stack 12	TOTAL VOC	480.24	2,137.54
PX 2E Row 190	3/24/2011 8:50 AM	5:35	Portions may be authorized under Permit #20211	Flare Stack 12	TOTAL VOC	5.98	2,137.54
PX 2E Row 195	4/1/2011 3:57 AM	3:07	6.04 lbs of the total 214.36 lbs are authorized under Permit #20211	Flare Stack 12	TOTAL VOC	208.32	2,137.54
		Che	Count II emical Plant Permit 364 Carbon Monoxid	•	3)		
PX 2F Row 1316	2/22/2009 7:00 AM	6.0	36476/PSD-TX- 996M1	Flare Stack 28	CO (Carbon Monoxide)	12.70	992.28
PX 2F Row 1320	2/25/2009 7:00 AM	6.0	36476/PSD-TX- 996M1	Flare Stack 28	CO (Carbon Monoxide)	163.00	992.28
PX 2F Row 1343	3/6/2009 1:45 PM	24.0	36476/PSD-TX- 996M1	Flare Stack 28	CO (Carbon Monoxide)	83.90	992.28
PX 2F Row 1356	3/13/2009 4:40 PM	1.0	36476/PSD-TX- 996M1	Flare Stack 28	CO (Carbon Monoxide)	3.52	992.28
		Chemic	Count II al Plant Permit 36467 (S Hydrogen Sulfic		tives)		
PX 2F Row 1266	1/20/2009 11:00 PM	3.0	36476/PSD-TX- 996M1	Flare Stack 28 (FS28)	H2S (Hydrogen Sulfide)	0.50	28.40
PX 2F Row 1312	2/19/2009 11:00 PM	9.0	36476/PSD-TX- 996M1	Flare Stack 28 (FS28)	H2S (Hydrogen Sulfide)	0.01	28.40
PX 2F Row 1645	12/28/2009 4:00 PM	2.0	36476/PSD-TX- 996M1	Flare Stack 28 (FS28)	H2S (Hydrogen Sulfide)	61.66	28.40

1111111111		Count III
Stipulated Table Number* and Row Number	Start Date & Time	Cause Reported in STEERS
		Count III HRVOC Rule Olefins Plant
PX 3 Row 5	6/25/2007 2:00 PM	LC01 A/B compressor trip resulted in flaring. Exceeded flare (PRIMFL) opacity limit for 15 minutes, VOC hourly limits for 3 hours., HRVOC hourly limit for 2 hours. Total emissions from Primary and Secondary Flare: 10,000 lbs VOC, 9827 lbs CO, 1888 lbs NOX, 5 lbs H2S, <1 lb SO2
PX 3 Row 6	1/3/2008 2:18 PM	LC01 A/B compressor trip resulted in flaring. Exceeded Primary flare (PRIMFL) and Secondary Flare (SECFL) opacity limit, VOC hourly limit for 25 hours, HRVOC hourly limit for 16 hours.
PX 3 Row 7	8/17/2008 12:00 PM	Compressor trips (LC01 and LC02) in the Cold Ends Unit resulted in flaring at the Primary Flare (PRIMFL) over the HRVOC hourly limit for two separate hours and over the permit VOC hourly limit for three separate hours.
PX 3 Row 8	9/3/2008 12:30 PM	During a plant upset, flaring from the primary (PRIMFL) and Secondary (SECFL) flares exceeded the PAL hourly VOC limit for 1 hour and the HRVOC limit for 1 hour ; the Secondary flare pilots were extinguished for a short period.
PX 3 Row 9	4/19/2009 5:00 AM	During a plant upset, flaring from the primary (PRIMFL) and Secondary (SECFL) flares exceeded the PAL hourly VOC limit for 11 hours and the HRVOC limit for 7 hours.
PX 3 Row 10	1/9/2010 8:00 AM	Extreme freezing weather conditions resulted in flaring with opacity for more than 5 minutes in two consecutive hours and site-wide emissions over the permit VOC hourly limit for six hours and over the HRVOC limit for two hours. Temperatures below freezing caused a level instrument malfunction on storage tank, XZTK-02, resulting in wastewater outside of the waste management unit.
PX 3 Row 11	2/2/2011 12:13 AM	During extreme freezing weather conditions, instrument malfunctions and equipment shutdowns resulted in flaring with opacity for more than 5 minutes in two consecutive hours. Site-wide emissions also intermittently exceeded the PAL hourly VOC limit and the hourly HRVOC limit.
		Count III HRVOC Rule Chemical Plant
PX 3 Row 15	9/28/2008 3:15 PM	During startup after Hurricane Ike, reactor R-5102 temperature instability caused pressure increase, resulting in safety relief valve to lift to atmopshere, exceeding the 1200 lb/hr HRVOC limit.
PX 3 Row 17	3/14/2012 8:00 AM	Incorrect lineup of safety relief valve PO-6101 resulted in an atmospheric relief event that exceeded the 1200 lb/hr HRVOC limit.

			Count IV				
Stipulated Table Number* and Row Number	Start Date & Time	End Date & Time	Duration (Hours)	Contam -inant	Opacity (%)	Reported Emission Limit (% Opacity)	Plant; Title V Permit #
			Count IV Smoking Flares Ru Refinery	ıle	-		
PX 4 Row 4	10/12/2007 2:32 PM	10/12/2007 2:48 PM	0.27	Opacity	100.00%	0.00%	Refinery; O-01229
PX 4 Row 5	10/12/2007 2:32 PM	10/12/2007 2:48 PM	0.27	Opacity	100.00%	0.00%	Refinery; O-01229
PX 4 Row 16	9/22/2011 11:28 AM	9/22/2011 11:43 AM	0.25	Opacity	100.00%	0.00	Refinery; O-01229
PX 4 Row 17	9/22/2011 11:28 AM	9/22/2011 11:43 AM	0.25	Opacity	100.00%	0.00	Refinery; O-01229
PX 4 Row 18	3/6/2013 10:57 AM	3/6/2013 11:12 AM	0.25	Opacity	100.00%	0.00	Refinery; O-01229
			Count IV Smoking Flares Ru Olefins Plant	ıle			
PX 4 Row 21	12/10/2005 1:04 PM	12/10/2005 3:45 PM	2.68	Opacity	100.00%	30.00%	Olefins; O-01553
PX 4 Row 22	1/10/2006 11:54 AM	1/10/2006 3:00 PM	3.10	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 23	1/10/2006 11:54 AM	1/10/2006 3:00 PM	3.10	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 24	10/6/2006 7:20 PM	10/7/2006 12:20 AM	5.00	Opacity	15.00%	0.00%	Olefins; O-01553
PX 4 Row 25	6/25/2007 2:00 PM	6/25/2007 5:00 PM	0.25	Opacity	60.00%	0.00%	Olefins; O-01553
PX 4 Row 26	6/25/2007 1:55 PM	6/26/2007 2:06 AM	12.18	Opacity	60.00%	0.00%	Olefins; O-01553
PX 4 Row 27	1/3/2008 2:18 PM	1/5/2008 7:20 AM	41.03	Opacity	20.00%	0.00%	Olefins; O-01553
PX 4 Row 28	1/3/2008 2:18 PM	1/5/2008 7:20 AM	41.03	Opacity	80.00%	0.00%	Olefins; O-01553
PX 4 Row 29	10/27/2008 12:06 PM	10/27/2008 12:13 PM	0.12	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 30	12/10/2009 4:50 PM	12/11/2009 12:50 AM	8.00	Opacity	25.00%	0.00%	Olefins; O-01553
PX 4 Row 31	12/10/2009 4:50 PM	12/11/2009 12:50 AM	8.00	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 32	1/9/2010 8:00 AM	1/9/2010 7:05 PM	11.08	Opacity	30.00%	0.00%	Olefins; O-01553
PX 4 Row 35	2/10/2010 10:54 AM	2/10/2010 11:11 AM	0.28	Opacity	31.00%	0.00%	Olefins; O-01553

PX 4 Row 36	2/2/2011 12:13 AM	2/6/2011 7:00 PM	114.78; This event is identified as "flaring with opacity for more than 5 minutes in two consecutive hours" in the deviation report	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 37	2/2/2011 12:13 AM	2/6/2011 7:00 PM	114.78; This event is identified as "flaring with opacity for more than 5 minutes in two consecutive hours" in the deviation report	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 38	2/2/2011 12:13 AM	2/6/2011 7:00 PM	114.78; This event is identified as "flaring with opacity for more than 5 minutes in two consecutive hours" in the deviation report	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 39	4/14/2012 4:00 PM	4/14/2012 7:59 PM	3.98	Opacity	50.00%	0.00	Olefins; O-01553
PX 4 Row 40	6/22/2012 9:00 AM	6/22/2012 10:00 AM	1.00	Opacity	100.00%	0.00%	Olefins; O-01553
PX 4 Row 41	1/8/2013 6:00 AM	1/8/2013 5:00 PM	11.00	Opacity	80.00%	0.00%	Olefins; O-01553
			Count IV Smoking Flares Ru Chemical Plant	le			
PX 4 Row 44	8/6/2009 2:54 PM	8/6/2009 4:35 PM	1.68	Opacity	100.00%	0.00%	Chemical; O-02269
PX 4 Row 45	8/6/2009 2:54 PM	8/6/2009 4:35 PM	1.68	Opacity	100.00%	0.00%	Chemical; O-01278
PX 4 Row 46	8/6/2009 2:54 PM	8/6/2009 4:35 PM	1.68	Opacity	100.00%	0.00%	Chemical; O-01278
PX 4 Row 47	8/6/2009 2:54 PM	8/6/2009 4:35 PM	1.68	Opacity	100.00%	0.00%	Chemical; O-01278

^{* &}quot;PX" refers to Plaintiffs' Exhibit.